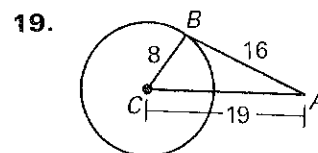
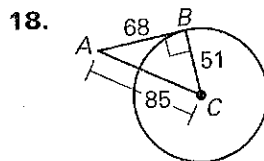
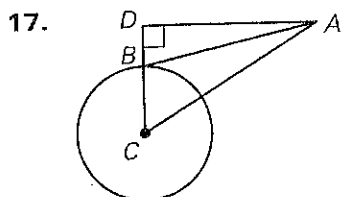


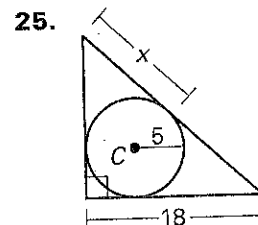
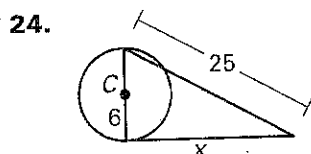
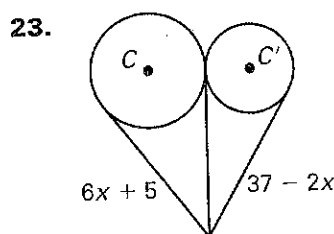
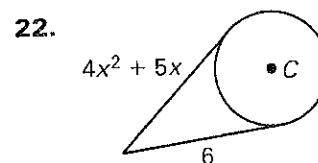
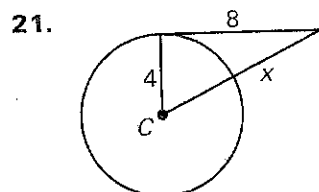
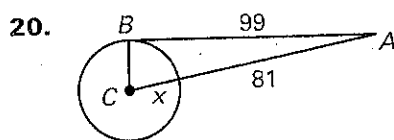
LESSON
10.1
Practice C *continued*

For use with pages 650–658

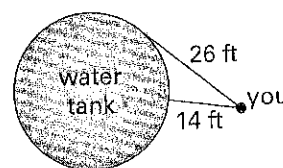
In the diagram, \overline{BC} is a radius of $\odot C$. Determine whether \overline{AB} is tangent to $\odot C$. Explain your reasoning.



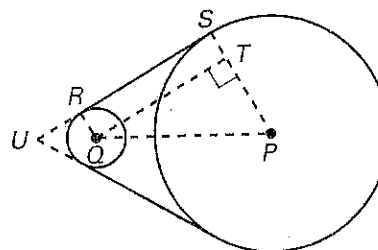
In the diagram, assume that segments are tangents if they appear to be. Find the value(s) of x .



26. **Water Tank** You are standing 14 feet from the edge of a cylindrical water tank and 26 feet from a point of tangency. The tank is 10 feet tall. What is the volume of the tank in cubic feet?



27. **Pulleys** The figure shows a pulley system in which a belt is wrapped around two pulleys so that one can drive the other. \overline{RS} is tangent to $\odot Q$ at R and to $\odot P$ at S . \overline{QT} is perpendicular to \overline{SP} , and Q and P are the centers of the circles. Let $QR = 2$ in., $PS = 8$ in., and $PQ = 12$ in.



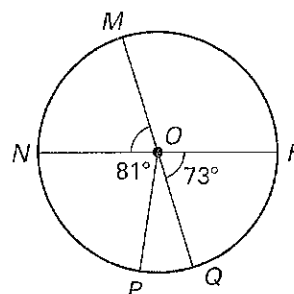
- Write a paragraph proof to show that $QRST$ is a rectangle.
- Find RS .
- Find $m\angle P$.

LESSON
10.2**Practice C**

For use with pages 659–663

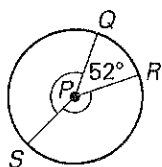
\overline{MQ} and \overline{NR} are diameters of $\odot O$. Determine whether the given arc is a *minor arc*, *major arc*, or *semicircle*. Then find the measure of the arc.

1. \widehat{MN}
2. \widehat{NQ}
3. \widehat{NQR}
4. \widehat{MRP}
5. \widehat{PN}
6. \widehat{MNQ}
7. \widehat{QR}
8. \widehat{MR}
9. \widehat{QMR}
10. \widehat{PQ}
11. \widehat{PRN}
12. \widehat{MQN}

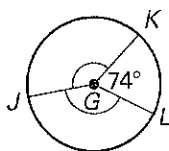


Find the indicated arc measure.

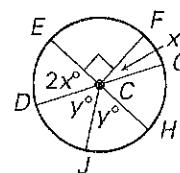
13. $m\widehat{QS}$



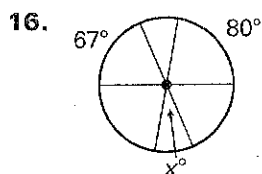
14. $m\widehat{LKJ}$



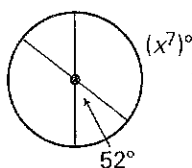
15. $m\widehat{DH}$



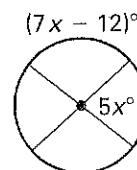
Find the value of x .



17.



18.



\overline{AC} and \overline{BD} are diameters of $\odot E$. Find the measure of the given arc if $m\widehat{ACD} = 316^\circ$.

19. $m\widehat{AD}$

20. $m\widehat{BC}$

21. $m\widehat{BCA}$

22. $m\widehat{DCB}$

\overline{RT} and \overline{PS} are diameters of $\odot N$. Find the measure of the given arc if $m\widehat{TP} = 47^\circ$.

23. $m\widehat{ST}$

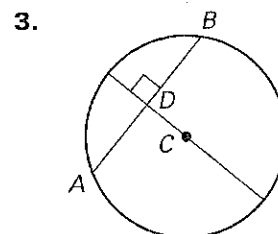
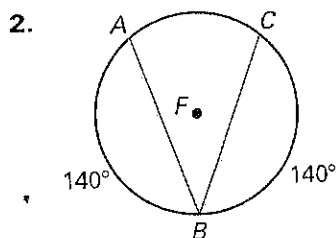
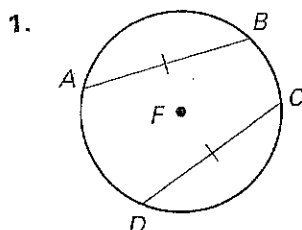
24. $m\widehat{PR}$

25. $m\widehat{RTP}$

26. $m\widehat{STR}$

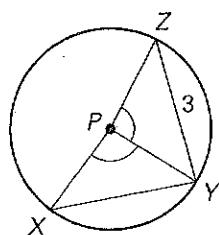
LESSON 10.3 **Practice C**
For use with pages 664–670

What can you conclude about the diagram? State a postulate or theorem that justifies your answer.

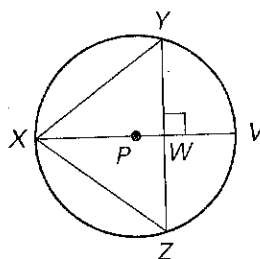


P is the center of the circle. Use the given information to find XY.

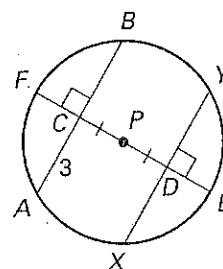
4. $ZY = 3$



5. $ZY = 6, XW = 4$



6. $CA = 3$



Find the measure of \widehat{MN} .

